



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Norman H. Bangerter, Governor
Dee C. Hansen, Executive Director
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

March 2, 1987

Mr. Marvin Berg
Quarry Superintendent
Southwestern Portland Cement Company
P. O. Box 529
Lyons, Colorado 80540

Dear Mr. Berg:

Re: Notice of Final Approval, Mining and Reclamation Plan Permit Application, Southwestern Portland Cement Company, Navajo Sandstone Quarry, ACT/023/010, Juab County, Utah

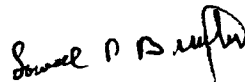
On January 12, 1987, the Division received your response to Condition #3 (reclamation surety). This was the last condition to be addressed prior to our finalizing the permitting action for this mining operation. The 30-day public comment period for the project expired on January 25, 1987. No written public comments were received by the Division. On February 26, 1987, during the scheduled monthly board hearing, the Board of Oil, Gas and Mining granted its concurrence on the amount and form of reclamation surety.

This letter will serve as the Division's final approval and permit to commence mining operations. We appreciate your patience and cooperation in completing this permitting action. We look forward to meeting with your staff onsite this spring to provide assistance in setting up the revegetation test plot and performing the vegetation survey as required by Condition #1. Our technical

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Mr. Marvin Berg
ACT/023/010
March 2, 1987

staff will be contacting your office to discuss appropriate timing for these activities in the near future. If we can provide further assistance or answer any remaining questions or concerns, please contact us at your convenience.

Sincerely,



L. P. Braxton
Administrator
Mineral Resource Development
and Reclamation Program

DWH:jvb
Attachment
cc: Donald Pendleton, BLM, Richfield
David Lower, SPC
Wayne Hedberg
8992R/54

Frank Filas
Dave Wham
Lynn Kinzler



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February 6, 1987

TO: Board of Oil, Gas and Mining

THRU: Kenneth E. May, Associate Director, Mining

THRU: Lowell P. Braxton, Administrator, Mineral Resource Development and Reclamation Program

FROM: D. Wayne Hedberg, Permit Supervisor/Reclamation Hydrologist *DWH*

RE: Southwestern Portland Cement, Inc., Navajo Sandstone Quarry, Request for Board Concurrence, Amount and Form of Reclamation Surety, ACT/023/010, Juab County, Utah

Attached for your information is a copy of the executive summary for Southwestern Portland Cement Enterprises, Inc., Navajo Sandstone Quarry. Southwestern Portland Cement filed a reclamation bond on January 12, 1987 for the proposed mine site disturbance. The Division seeks your concurrence on the amount and form of the surety. The reclamation bond (MR Form 5) is in the sum of \$51,000 (1987 dollars).

Public notice was forwarded to the appropriate news services, and the thirty (30) day public comment period for the project expired on January 25, 1987. No written public comments were received by the Division.

Southwestern Portland Cement has adequately resolved all but one of the conditions which were attached to the Division's December 18, 1986 tentative approval letter. This condition will be addressed during the spring of 1987. Please refer to the attached executive summary for a general description of the mining proposal.

jvb
Attachments
8946R-58

EXECUTIVE SUMMARY - NEW PERMIT

Mine Name: Navajo Sandstone Quarry
Operator: Southwestern Portland Cement
P.O. Box 21158
S.L.C., Utah 84121
Telephone: 801-263-3011
Contact Person: Mr. Marv Berg
Life of Mine: 20 Years
Legal Description: Sections 19 and 30, Township 13 South, Range 1 West and
Section 24 and 25, Township 13 South, Range 2 West.
Mineral(s) to be Mined: Sandstone
Mining Methods: Surface Mine
Acres to be Disturbed: 38 Acres
Present Land Use: Rangeland and mining
Postmining Land Use: Rangeland
Variances from Reclamation Standards (Rule M-10) Granted: M-10(5) Highwall

Soils and Geology:

Soil Description: Loam, 0-6 inches thick, strongly alkaline, with many
rock outcrops.
pH: 8.11 - 8.65
Special Handling Problems: Moderate erosion hazard.
Geology Description: Thin topsoil lies directly on top of the Navajo
Sandstone outcrop.

Hydrology:

Ground Water Description: Water table is located below the zone of mining.
Surface Water Description: Two ephemeral drainages crossing the mine site
form the eastern and western quarry limits. No perennial water is found on
the permit area.
Water Monitoring Plan: None required. Insignificant impact to water
resources anticipated.

Ecology:

Vegetation Type(s); Dominant Species: Sagebrush, Pinyon, Juniper and
limited dryland grasses and forbs.
Percent Surrounding Vegetative Cover: Refer to "remaining condition"
Wildlife Concerns: No significant concerns identified.
Surface Facilities: None proposed.
Mining and Reclamation Plan Summary: See attached summary

Surety:

Amount: \$ 51,000 (1987 dollars)
Form: MR Form 5, Reclamation Bond
Renewable Term: 1 year, subject to revision in 1988 (depends upon extent
of surface disturbance affected).

ATTACHMENT

Mining and Reclamation Plan Summary
New Permit Application, Navajo Sandstone Quarry

Southwest Portland Cement, Inc.
ACT/023/010
Juab County, Utah

February 6, 1987

During Operations:

1. Southwest Portland Cement, Inc. will develop and operate a 20 year open pit sandstone quarry. The operation will disturb 6 acres initially and 3 to 4 additional acres every 5 years. A series of terraced benches 80(H) X 40(V) will be developed. There will be no waste tailing piles, buildings, foundations, sewage or any associated facilities located on the mine site. Anticipated production will be @100,000 tons annually.
2. Proposed disturbance includes: The mine pits, waste dump areas, topsoil storage sites, haul and access roads, surface drainage control structures, and diversions. All proposed disturbance will be located on land leased by the Bureau of Land Management (38 acres total).
3. Topsoil stripping will be accomplished by dozer using a down-slope recovery method. Topsoil storage will be adjacent to the stripped sections. Topsoil stockpiles will be broadcast seeded to minimize erosion.
4. Pit run material will be loaded onto haul trucks and transported to the Leamington Cement Plant where existing mine and mill facilities will be used to process the sandstone which is mined.
5. A revegetation test plot will be established in the spring of 1987 to determine the success of the species selected for final reclamation.

Following Operations:

The operator will implement the following reclamation plan upon termination of all mining activities associated with the Navajo Sandstone Quarry:

1. Disturbed areas including roads, pads and benches will be stabilized, regraded, and sloped to conform with the surrounding site topography to the extent practicable.
2. The terraced benches will be covered with 4 - 6 inches of topsoil and seeded with the approved seed mixture. Final overall slope should not exceed 2H:1V.

4-Wire Fence

3. The regraded and topsoiled disturbed areas will be revegetated during the fall season with a seed mix which is best suited to the elevation and climate of the mine site. Standard agronomic practices will be used to prepare the seedbed for drill, broadcast, or hydro-seeding. Appropriate rates of fertilizer and mulch will be applied based upon plant and soil needs.
4. Upon revegetation, fencing will be installed as necessary to insure proper vegetation establishment before grazing resumes. Post-revegetation monitoring will be performed during the liability period.

Variance Granted:

M-10(5) Highwalls

The Division has granted a variance regarding pit slope requirements of the mining operation. The operator has provided sufficient documentation to justify granting this request. In the event the final configuration and condition of the pit benches and slopes differ significantly from those proposed in the MRP, the Division may require Southwestern Portland Cement, Inc. to submit further stability analysis to indicate mass stability of the same.

Remaining Condition:

The operator has committed to perform a vegetation survey of the immediate area during the spring of 1987 with assistance from the Division.